



A Moment to Reflect - NCRI Informatics Initiative 2010 and beyond

Alan Hogg June 2010





What makes informatics important?

It is NOT the pursuance of information perfection

It IS the pursuance of disambiguation and interoperability for the benefit of finding and (re-)using information efficiently





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Which photo is related to the NCI?



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NCRI Initiative Achievements to date

- Public launch of the ONIX information portal
- Wide adoption of data-sharing policies amongst the NCRI Partners
- Extensive, active national and international collaborations ongoing
- Established annual international conference
- Technical collaboration with the U.S. caBIG®, British Library, European Bioinformatics Institute, onCore UK, University College London, Leeds Institute of Molecular Medicine (LIMM), University of Oxford...... etc.



Our approach is still the same





Build a collaborative 'network of networks' through Platform Development



Still the same for the researcher

- What exists and what does it contain?
- How do I find and extract the exact information I need?
- How do we work more effectively across different research domains and disciplines?
 - Translational research
 - Stratified (personalised) medicine etc
- What can I do to help?







So what has changed?

- No longer 'What is informatics?' it is now 'How do we apply informatics?'
- Great exemplars now exist of what can be achieved
- Coordination now key as we have seen an explosion of work in this area





























Initiative Focus

- To promote a 'cultural change' to continue to increase the willingness of researchers to share information.
- To facilitate the development of a consistent framework of policies that provide a requirement to share (with the credit for doing so) coupled to a set of conventions that govern re-use and citation of other's work.
- To promote, and provide consistent information about, data standards.





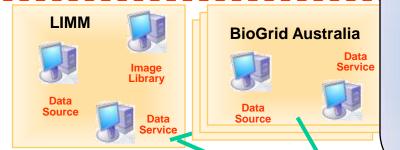
Initiative Focus

- Promoting the means to discover, browse and create new information sets from existing resources. Key components:
 - Joint programme of work packages with NIHR
 Research Capability Programme and the NCRI
 National Cancer Intelligence Network to facilitate the
 delivery of registry and NHS data sets to researchers
- "Connecting" existing resources and informatics initiatives by promoting increased levels of interoperability between these 'information islands' to form a "network of networks" nationally and internationally.







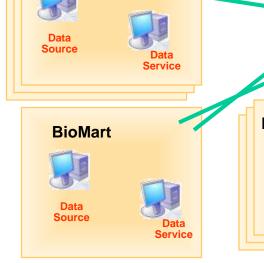


Interoperability

Standards

A network of networks

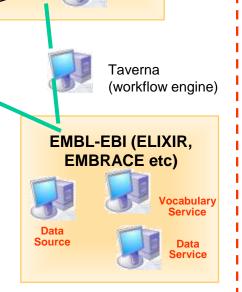
Resource Discovery



British Library



ONIX





INFORMATICS

What is ONIX?







ONIX – Resource Catalogue

















'Catalogue of Catalogues'

- Original ONIX catalogue still there with a wide mix of entries
- Real power has been stimulation of others to catalogue what they have
 - caBIG[®] services
 - EMBL-EBI/Manchester University Biocatalogue
 - UK cancer tissue banks
 - UK clinical trial generated cancer tissue collections
 - NHS Information Centre (coming soon)





Cancer InfoMatrix



Data Standards Development Activity:

High

Low





Cancer InfoMatrix

- Designed to promote awareness of data standards
- Simple, visual tool to assist researchers in identifying appropriate standards for their area of research
- Collaborative work with U.S. caBIG[®] and U.S. National Center for Biomedical Ontologies
 - Consistency in information being provided no matter which organisation you see information from
 - Promotion of data interchange standards as important as vocabularies in allowing the sharing of information





Strategic Collaboration

- Promote interoperability internationally
- De-focus issues with boundaries of
 - Clinical, bench, publishing
 - Data, tools, literature
 - Different informatics infrastructures

Our strategic partnerships key - NCI/caBIG®, EMBL-EBI/Manchester University, UCL, British Library, UK NHS and beyond



Key Focus - Clinical and Population Data

- Collaboration with
 - NIHR Research Capability Programme
 - NCRI National Cancer Intelligence Network
- Working across several focus areas
- Make these rich and significant UK national assets available to researchers
- Underpinned by joint funding by the NIHR RCP and NCRI Partners in 2010/2011





In Summary

- Business as usual, but some new, and exciting, areas
- Cancer focus, but moving beyond cancer
- Continue to demonstrate how informatics, coupled to a willingness to want to share, supports better and more efficient research

Not to be afraid to reflect and refocus periodically



Thank You

- Come and see ONIX on our stand
- ONIX: http://www.ncri-onix.org.uk
- Initiative: http://www.cancerinformatics.org.uk